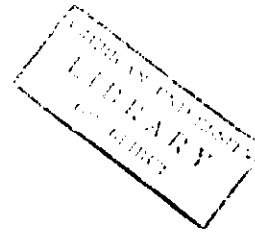


American University of Beirut
Department of Geology
Geol 207 Map Interpretation
Final Exam



NAME: _____

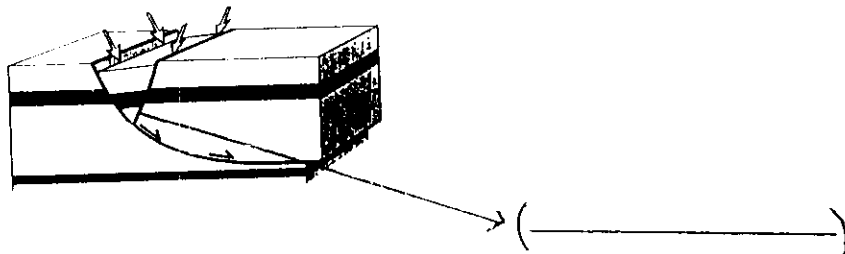
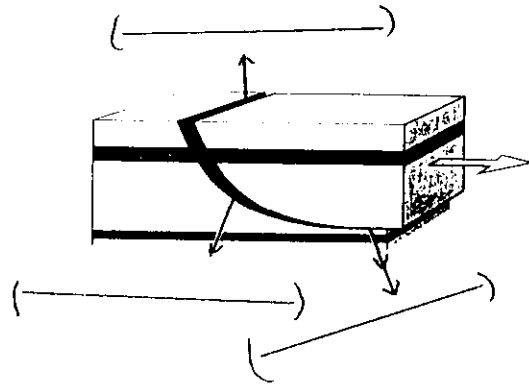
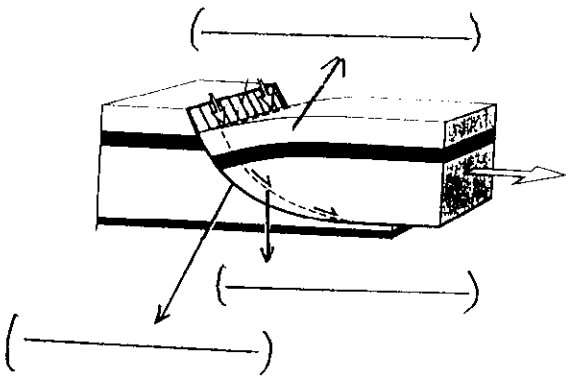
Spring 2000

(25 points)

1.

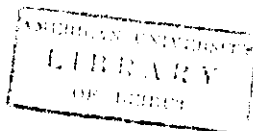
(7 points)

A. Label (name) the parts shown by the arrows.



(3 points)

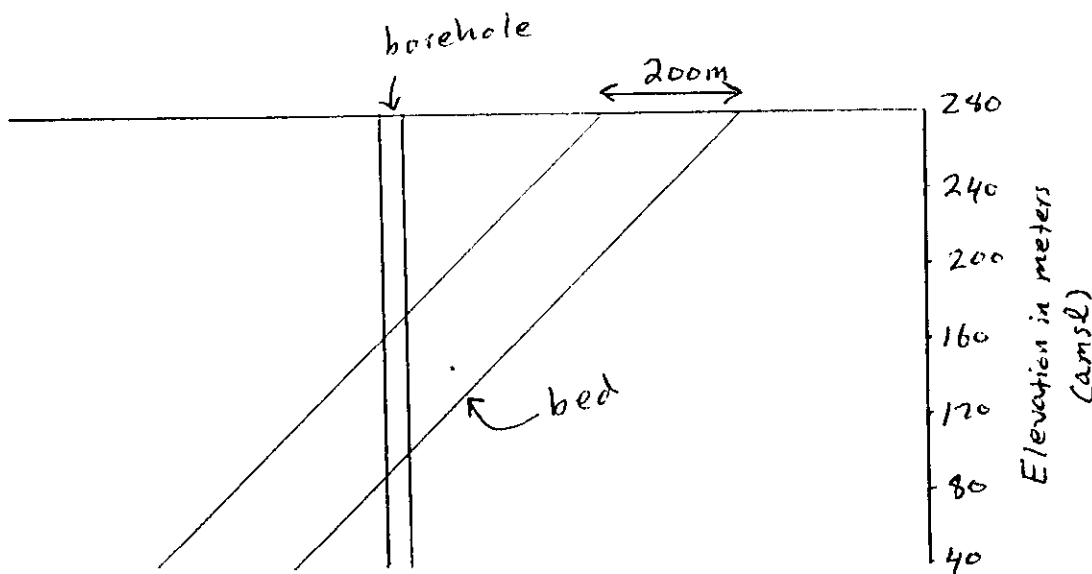
B. Use diagrams to show how folds are produced by crustal forces.



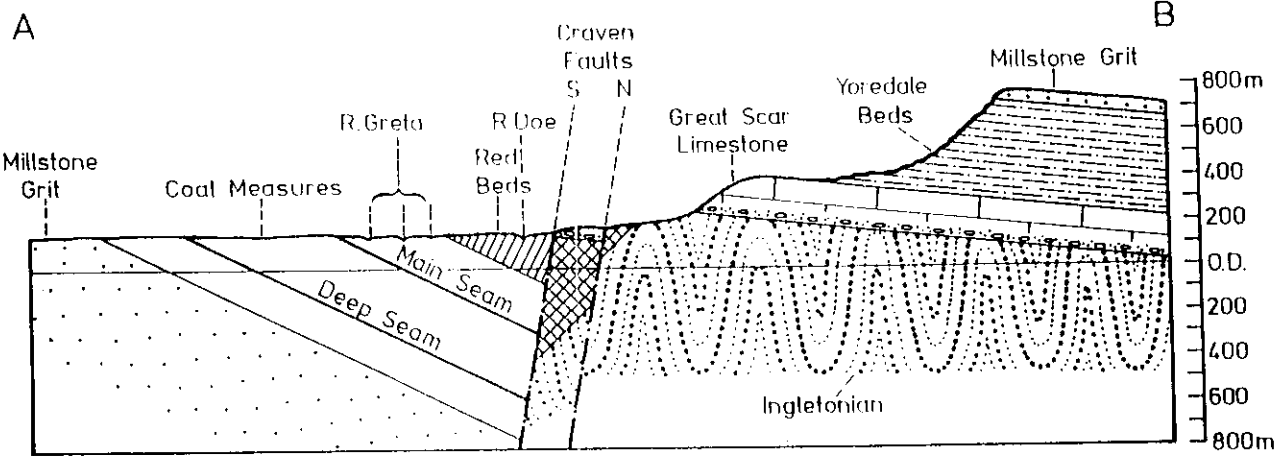
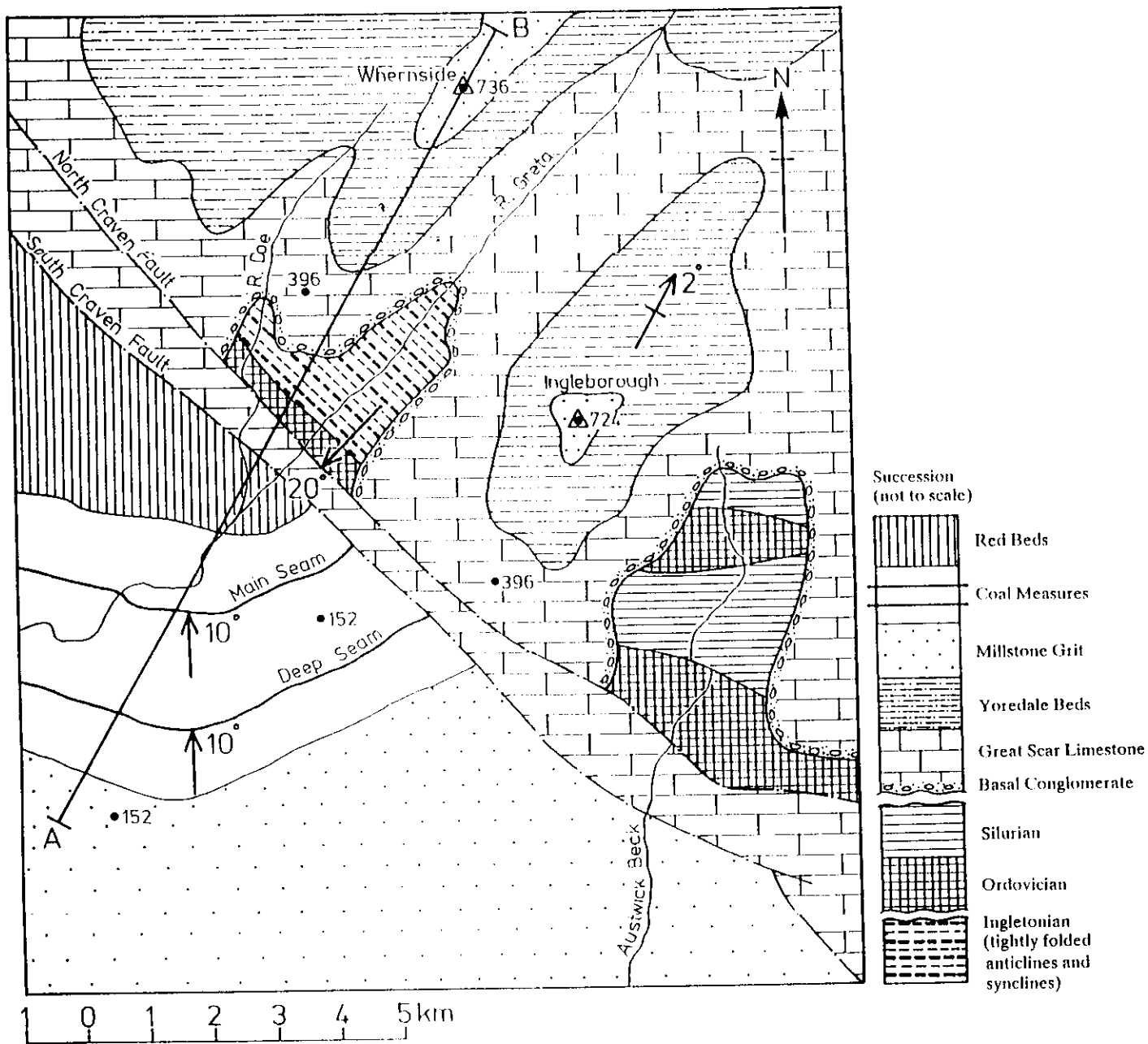
(10 points) C.
(2 points) a. Define the term "fold attitude".

(8 points) b. Sketch diagrams for all possible fold attitudes. Clearly label your diagrams.

(5 points) D. Calculate the dip angle of the bed shown below.

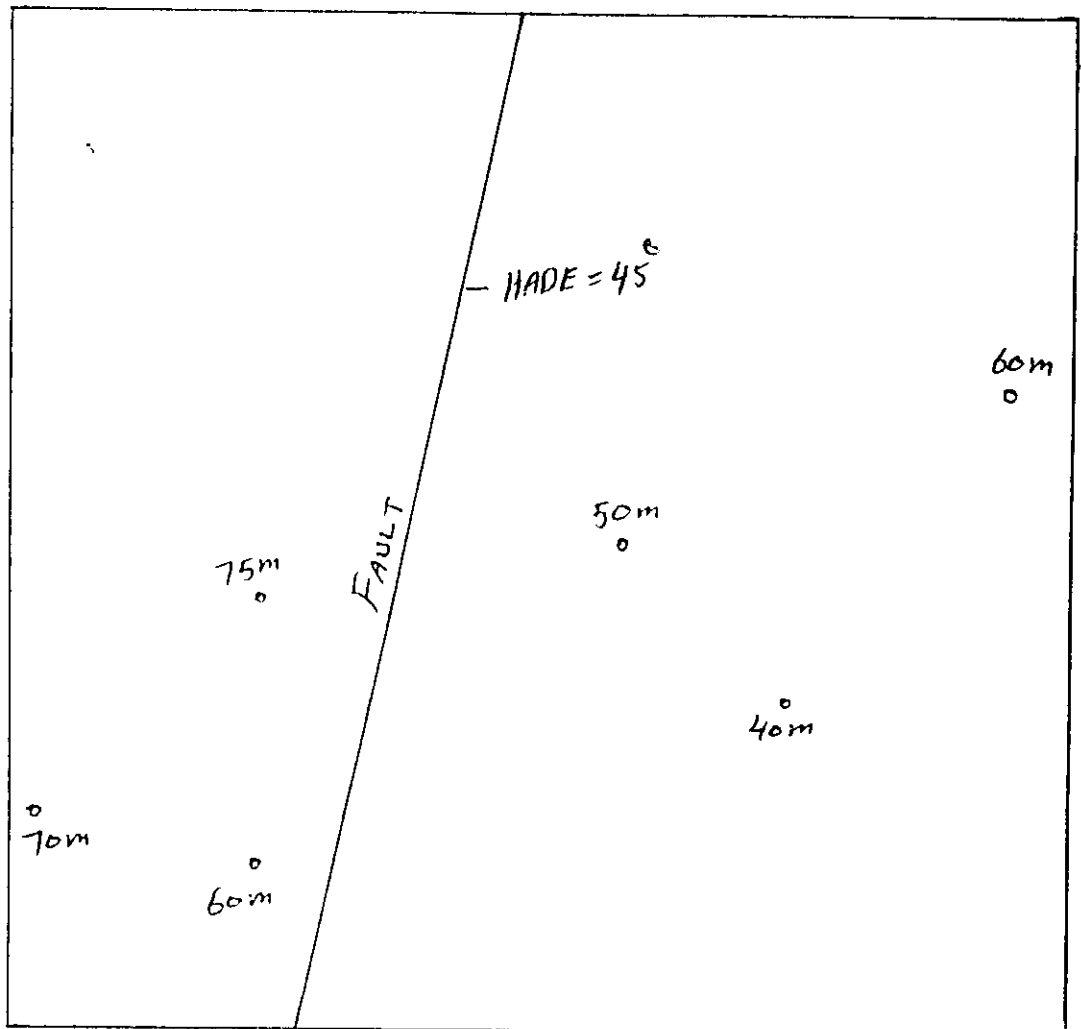


(20 points) 2. Interpret the geological history of the area shown by the map below.
Write your interpretation on the back of this page.



(20 points) 4.

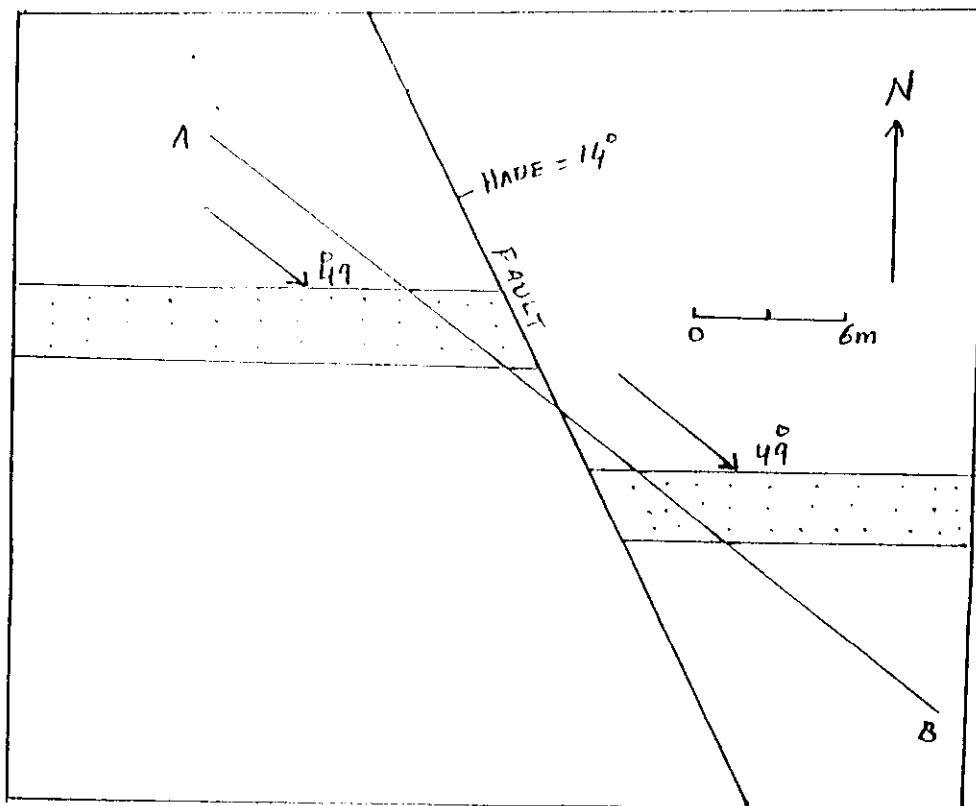
The map below shows a fault at an elevation of 30 meters amsl, and elevations (amsl) of a thin bed recorded at six borcholes. Calculate the throw of the fault.



scale 1:10000

(15 points) 5.
(10 points) A.

The map below is for a horizontal ground at an elevation of 21 meters amsl. Draw a cross-section along AB and determine the throw of the fault. Do not use vertical exaggeration.



(5 points) B. Explain how an angular unconformity is formed. Support your answer with diagrams.